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TEST REPORT

Clients:	BRUHAT BENGALORE MAHANAGARA PALIKE
Project:	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	E, RAMESH ANAND

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand)		Proposed Use	coping concrete/PCC	
Sample Location	At Plant/ At site		Date of Sampling	19/03/18	
			Date of Testing	19/03/18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	182	182	6.07	93.93	90 - 100
2.36 mm	432	614	20.47	79.53	75 - 100
1.18 mm	622	1236	41.20	58.80	55 - 90
0.600 mm	444	1680	56.00	44.00	35 -59
0.300 mm	622	2302	76.73	23.27	8-30
0.150 mm	440	2742	91.40	8.60	0 - 10
Pan	258	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	E, RAMESH ANAND

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	19/03/18
Period of Soaking	24 hours	Date of Testing	19/03/18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	630	650	660	
B	Weight of oven - dry sample gm.	622	642	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1672	1683	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.670	2.653	2.661	**2.661**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.286	1.246	1.227	**1.253**

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Test Report on Cement

Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
Sample ID	Cement
Date of Sample Tested	19/03/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	358 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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Test Report on Cement

Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
Sample ID	Cement
Date of Sample Tested	19/03/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	352 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	E. RAMESH ANAND
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material:	40 mm down size			Proposed Use	PCC
Sample Location:	At site			Date of Sampling	19/03/18
				Date of Testing	19/03/18
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007)
					% of Passing For Graded Aggregate of Nominal Size
40.00mm	0	0	0.00	100.00	100
20.00mm	0	0	0.00	100.00	-
10.00mm	111	111	3.70	96.30	95-100
4.75mm	1125	1236	41.20	58.80	30-70
2.36mm	873	2109	70.30	29.70	10-35
1.18mm	768	2877	95.90	4.10	0-5
Pan	124	3000	100.00	0.00	

Remarks: Satisfactory / Not Satisfactory

Consultant's Representative

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Test Report on Cement

Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
Sample ID	Cement
Date of Sample Tested	03/05/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	352 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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Test Report on Cement

Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
Sample ID	Cement
Date of Sample Tested	03/05/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle-GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	E, RAMESH ANAND	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Drain	
Sample Location	At Plant	Date of Sampling	03/05/2018	
		Date of Testing	03/05/2018	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	282	282	2.82	97.18	95 - 100
10.00 mm	4682	4964	49.64	50.36	25 - 55
4.75 mm	4222	9186	91.86	8.14	0 - 10
Pan	814	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle-GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	E, RAMESH ANAND	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Side Concrete	
Sample Location	At Plant		Date of Sampling	03/05/2018	
			Date of Testing	03/05/2018	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	256	256	2.56	97.44	95 - 100
10.00 mm	4611	4867	48.67	51.33	25 - 55
4.75 mm	4217	9084	90.84	9.16	0 - 10
Pan	916	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.	
Consultants	TEJUS CONSULTANTS	
Contractor	E, RAMESH ANAND	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Drain	
Sample Location	Plant	Date of Sampling	03/05/2018	
		Date of Testing	03/05/2018	

Sl. Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	557	557	5.57	94.43	90-100
10.0	3284	3841	38.41	61.59	40-85
4.75	5622	9463	94.63	5.37	0-10
Pan	537	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Drain
Sample Location	Plant	Date of Sampling	03/05/2018
		Date of Testing	03/05/2018

Sl. Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	547	547	5.47	94.53	90-100
10.0	3219	3766	37.66	62.34	40-85
4.75	5562	9328	93.28	6.72	0-10
Pan	672	10000			

Remarks : Satisfactory / Not Satisfactory

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Consultant's Representative

TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	RAMESH ANAND, E

SPECIFIC GRAVITY AND WATER ABSORPTION

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	03/05/2018
Period of Soaking	24 hours	Date of Testing	03/05/2018

Sl.No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	654	646	675	
B	Weight of oven - dry sample gm.	642	638	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1684	1682	1700	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.620	2.669	2.664	**2.651**
F	Absorption $\frac{(A-B)*100}{B}$	1.869	1.254	1.351	**1.491**

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TEST REPORT

Client:	BRUHAT BENGALORE MAHANAGARA PALIKE
Project:	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	RAMESH ANAND, E

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material:	Fine aggregate (River Sand)		Proposed Use	coping concrete/PCC	
Sample Location:	At Plant/At site		Date of Sampling	03/05/2018	
			Date of Testing	03/05/2018	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	190	190	6.33	93.67	90 - 100
2.36 mm	380	570	19.00	81.00	75 - 100
1.18 mm	490	1060	35.33	64.67	55 - 90
600 mm	430	1490	49.67	50.33	35 -59
300 mm	676	2166	72.20	27.80	8-30
150 mm	564	2730	91.00	9.00	0 - 10
Pan	270	3000			-
Remarks:	✓ Satisfactory / Not Satisfactory				

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TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	RAMESH ANAND, E

SPECIFIC GRAVITY AND WATER ABSORPTION

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	03/05/2018
Period of Soaking	24 hours	Date of Testing	03/05/2018

Sl.No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	655	649	670	
B	Weight of oven - dry sample gm.	642	636	662	
C	Weight of Pycnometer Filled with water gm.	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm.	1687	1684	1696	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.642	2.650	2.659	**2.650**
F	Absorption (%) $\frac{(A - B) * 100}{B}$	2.025	2.044	1.208	**1.759**

TEJUS CONSULTANTS

TEST REPORT

Client:	BRUHAT BENGALORE MAHANAGARA PALIKE
Name of Work:	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	E, RAMESH ANAND

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material:	Fine aggregate (River Sand)		Proposed Use	coping concrete/PCC	
Sample Location:	At Plant/At site		Date of Sampling	03/05/2018	
			Date of Testing	03/05/2018	
Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	186	186	6.20	93.80	90 - 100
2.36 mm	384	570	19.00	81.00	75 - 100
1.18 mm	485	1055	35.17	64.83	55 - 90
600 mm	422	1477	49.23	50.77	35 -59
300 mm	668	2145	71.50	28.50	8-30
150 mm	564	2709	90.30	9.70	0 - 10
Pan	291	3000			-
Remarks:					

Satisfactory / Not Satisfactory

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